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EXAMINER

EL CHANTI, HUSSEIN A

ART UNIT

PAPER NUMBER

2157

MAIL DATE

DELIVERY MODE

05/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/787,198

Applicant(s)

BEDDUS ET AL.

Examiner

Hussein A. El-chanti

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

Response to Amendment

1. This action is responsive to RCE received on March 19, 2007. Claims 10, 22 and 23 were amended. Claims 2-25 are pending examination.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 2-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Oehrke et al., U.S. Patent No. 6,735,631 (referred to hereafter as Oehrke).

As to claim 22, Oehrke teaches a communications service platform comprising:

a multiplicity of subsystems, each of the subsystems including:

respective service processing resources and a respective resource locator (see col. 4 lines 27-42, plurality of redirector servers connected to a plurality of application servers); and

wherein collectively said subsystems provide a distributed processing architecture which distributes the task of resource management and resource allocation between said multiplicity of subsystems (see col. 3 lines 10-17, redirector servers collects data and allocate resources on the application server); and

wherein each subsystem resource locator includes:

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means for advertising to each of said other subsystem resource locators data indicating the subsystem identity and data indicating the availability of resources in the respective subsystem (see col. 3 lines 10-17 and col. 5 lines 35-45, statistics data is collected from each application server);

means for receiving identity data and resource availability data from other subsystem resource locators (see col. 3 lines 10-17 and col. 5 lines 35-45); and

means to subsequently broadcast request for resources from each of said other subsystem resource locators by communicating signaling messages directly with each of said other subsystem resource locators (see col. 8 lines 29-62).

As to claim 2, Oehrke teaches a platform according to claim 22, in which the resource locators are arranged to communicate directly with each other by peer-to-peer signaling (see col. 8 lines 29-62).

As to claim 3, Oehrke teaches a platform according to claim 22, further comprising a resource broker and in which at least some communication between the resource Locators is mediated by the resource broker (see col. 8 lines 29-62).

As to claim 4, Oehrke teaches a platform according to claim 3, in which the resource broker is located in one of the said subsystems (see col. 8 lines 29-62).

As to claim 5, Oehrke teaches a platform according to claim 3, in which the resource broker includes:

a data interface arranged to receive capability data and interface data from respective resource locators, and

a registry arranged to store the said capability data and interface data (see col. 3 lines 10-17).

As to claim 6, Oehrke teaches a platform according to any one of claims 3, in which a resource locator in a subsystem is arranged initially to read capability data and interface data for another subsystem from the resource broker, and subsequently communicates further data directly with the other subsystem using the interface of the subsystem identified in the said interface data without further reference to said resource broker (see col. 8 lines 29-62).

As to claim 7, Oehrke teaches a platform according to any one of claims 3, in which at least one of the subsystems is arranged to communicate directly with a selected other subsystem via a respective specific data interface and in which others of the subsystems are arranged to communicate with a selected other subsystem via an object bus (see col. 8 lines 29-62).

As to claim 8, Oehrke teaches a platform according to claim 7 in which the or each said subsystem arranged to communicate directly via a respective specific data interface is arranged, on initialization of the said subsystem, to read data for the selected other subsystem from the resource broker, and in response to calls subsequent to the initialization of the subsystem, communicates directly with the selected other subsystem without reference to the resource broker (see col. 8 lines 29-62).

As to claim 9, Oehrke teaches a platform according to claim 7, in which the said subsystems arranged to communicate via an object bus are arranged, in response to each new call, to read resource data from the resource broker (see col. 9 lines 27-50).

As to claim 10, a communications system comprising:

a plurality of call processing subsystems;

a network interconnecting the plurality of call processing subsystems;

a resource broker connected to the network, the resource broker including a data interface arranged to receive capability data and interface data from respective call processing subsystems (see col. 5 lines 25-col. 6 lines 65), and

a registry arranged to store the said capability data and interface data (see col. 8 lines 29-62);

wherein the resource locator of one of the plurality of call processing subsystems initially reads the capability data and interface data for another one of the plurality of call processing subsystems stored in the registry of the resource broker, and subsequently communicates signaling messages directly with the another one of the plurality of call processing subsystems without further reference to the resource broker (see col. 8 lines 29-62).

As to claim 11, Oehrke teaches a communications system according to claim 10, further comprising an object bus interconnecting at least some of the call processing subsystems (see col. 5 lines 35-62).

As to claim 12, Oehrke teaches a communications system according to claim 11, in which communication paths between others of the subsystems bypass the object bus (see col. 5 lines 28-59).

As to claim 13, Oehrke teaches a computing platform comprising a multiplicity of loosely coupled computing subsystems, each of the said subsystems including respective data processing resources and a respective resource Locator arranged to advertise the identity of the respective resource locator and the loading of the respective resources by directly broadcasting to others of the resource locators and to directly receive resource signaling from others of the resource Locators that has been broadcasted by others of the resource locators (see col. 8 lines 29-62).

As to claim 14, Oehrke teaches a method of operating a communications system, the system including a multiplicity processing subsystems and network interconnecting the multiplicity of subsystems, the method comprising;

a) broadcasting from resource locator in a respective one of the multiplicity of subsystems to resource Locators in others of the multiplicity of subsystems data indicating the identity of the said one subsystem and the availability of resources in the said one subsystem (see col. 7 lines 8-65);

b) repeating step (a) for each other of the multiplicity of subsystems:

c) when one of the multiplicity of subsystems, in the course of processing a call, requires resources not present Locally in the said subsystem:

identifying from the said data communicated to the resource locator of the said one subsystem another subsystem having the said resources;

ii) accessing the said subsystem via the network;

wherein the resource locators are arranged to communicate signaling directly with each other (see col. 6 lines 25-col. 7 lines 65 and col. 8 lines 29-62).

As to claim 15, Oehrke teaches a method according to claim 14, in which, for each of the multiplicity of subsystems, step (a) is repeated regularly (see col. 8 lines 29-62).

As to claim 16, Oehrke teaches a method according to claim 15, in which the period of repetition for step (a) is small compared to the mean duration of a call processed by the communications system (see col. 8 lines 29-62).

As to claim 17, Oehrke teaches a method according to claim 14, in which, for at least one of the multiplicity of subsystems, step (a) is repeated in response to an event in the respective subsystem (see col. 9 lines 7-17).

As to claim 18, Oehrke teaches a method according to claim 17, in which the said event is a change in resource availability in the subsystem exceeding a predetermined threshold (see col. 9 lines 7-17).

As to claim 19, Oehrke teaches a method according to any one of the preceding claims in which the communication of resource data between subsystems is mediated by a resource broker (see col. 5 lines 25-col. 6 lines 65).

As to claim 20, Oehrke teaches a method according to claim 19, in which data is communicated between at least some of the subsystems and the resource broker via an object bus (see col. 7 lines 25-65).

As to claim 21, Oehrke teaches a method according to claim 20 in which data is communicated between others of the subsystems directly, bypassing the object bus (see col. 6 lines 15-col. 7 lines 15).

As to claim 23, Oehrke teaches a multiplicity of subsystems, each of the subsystems including:

- respective service processing resources and a respective resource locator (see col. 3 lines 52-67); and

- wherein collectively said subsystems provide a distributed processing architecture which distributes the task of resource management and resource allocation between said multiplicity of subsystems (see col. 3 lines 10-65, plurality of agents and resource locators are connected to the network); and

- wherein each subsystem resource locator includes:

- means for communicating to each of said other subsystem resource locators data indicating the subsystem identity and data indicating the availability of resources in the respective subsystem (see col. 5 lines 25-col. 6 lines 65);

- means for receiving identity data and resource availability data from other subsystem resource locators; and

- means to register and discover resources and interface details with a resource broker when said one of said multiplicity of subsystems is initialized; and

- means to subsequently request resources directly from other subsystem resource locators by communicating signaling directly with said other resource locators and without further reference to said subsystem being initialized (see col. 8 lines 29-62).

As to claims 24 and 25, Oehrke teaches the method and platform of claims 19 and 3 respectively, wherein the communication of the resource data mediated by the resource broker occurs at initialization of at least one of the subsystems, and the broadcast for the request for resource from one of the resource locators of a respective one of the subsystems to another one of the subsystem is provided by direct communication between the subsystems, subsequent to the mediated communication, without further reference to the resource broker (see col. 8 lines 29-62).

3. Applicant's arguments have been fully considered but are moot in view of the new grounds of rejection.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hussein A. El-chanti whose telephone number is (571)272-3999. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571)272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hussein Elchanti

May 7, 2007


ABDULLAH SALAD
PRIMARY EXAMINER